

Car collision prevention apparatus and method using dual processor and automatic sensor switching function

Publication number: CN1107786

Publication date: 1995-09-06

Inventor: CHO JUNG SIK (KR); SONG JE SERK (KR)

Applicant: HYUNDAI ELECTRONICS IND (KR)

Classification:

- International: G01S15/89; G01S17/02; G01S17/89; G01S7/497; G01S15/00; G01S17/00; G01S7/48; (IPC-1-7): B60K31/00

- European: G01S15/89; G01S17/02; G01S17/89

Application number: CN19941013326 19941227

Priority number(s): KR19930029738 19931227; KR19930030578 19931229

Also published as:

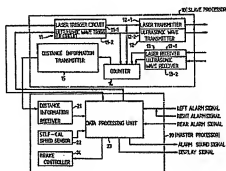
US5594413 (A1)
CN1043465C (C)

Report a data error here

Abstract not available for CN1107786

Abstract of corresponding document: US5594413

Car collision prevention apparatus and method comprises a slave processor for transmitting and receiving a laser beam or an ultrasonic wave signal to extract distance information between a car and a car in front, and a master processor for comparing the extracted distance information from the slave processor with a safety distance between the car and the front car based on a car speed and performing car accelerating or decelerating and alarm functions in accordance with the compared result. The slave processor comprises a long-distance sensing laser sensor and a short-distance sensing ultrasonic wave sensor disposed in a front side of the car, the long-distance sensing laser sensor consisting of a laser trigger circuit, a laser transmitter and a laser receiver, the short-distance sensing ultrasonic wave sensor consisting of an ultrasonic wave trigger circuit, an ultrasonic wave transmitter and an ultrasonic wave receiver. The long-distance sensing laser sensor is driven in long-distance mode of the car in which the car speed is higher than a reference speed. The short-distance sensing ultrasonic wave sensor is driven in short-distance mode of the car in which the car speed is lower than the reference speed.



Data supplied from the esp@cenet database - Worldwide